EXHIBIT E

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue of:

U.S. PATENT NO. RE41,428

Issued.:

JULY 13, 2010

Shapplication No.: To be assigned

Application No.: To be assigned

Atty. Docket No: 081553.0102

Title:

"Method and Device for Pictorial Representation of Space-Related Data"

Shapplication No.: To be assigned

Atty. Docket No: 081553.0102

MAIL STOP REISSUE Commissioner for Patents P.O. Box 1450 Alexandria, Va 22313-1450 CERTIFICATE OF FILING ELECTRONICALLY VIA EFS 37 C.F.R. $\S~1.8$

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PRELIMINARY AMENDMENT

Dear Honorable Commissioner:

Please amend the above-identified reissue application as follows:

- Amendments to the Specification begin on page 2 of this paper;
- Amendments to the Claims begin on page 12 of this paper; and
- Statement of Status and Support for All Changes Under 37 C.F.R.
 1.173(c) begins on page 21 of this paper.

Electronic Patent /	4pp	lication Fee	: Transmi	ttal	
Application Number:					
Filing Date:					
Title of Invention:	ME DA		FOR PICTORIA	L REPRESENTATION	I OF SPACE-RELATED
First Named Inventor/Applicant Name:	Pa	vel Mayer			
Filer:	Eliz	zabeth L. Durham/N	licci Fowler		
Attorney Docket Number:	08	1553.0102			
Filed as Small Entity					
Reissue (Utility) Filing Fees					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Utility Reissue Basic		2014	1	195	195
Design and utility Reissue Basic		2114	1	310	310
Design and utility Reissue Basic		2314	1	380	380
Pages:					
Claims:					
Reissue claims in excess of 20 for small		2205	43	31	1333
Miscellaneous-Filing:					
Petition:					

Case 1:14-cv-00217-TBD Document 64-5 Description	Filed 01/26 Fee Code	/15 Page Quantity	4 of 18 Page Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	2218

	64-5 Filed 01/26/15 Page 5 of 18 PageID #: 576
Electronic Aci	knowledgement Receipt
EFS ID:	15020194
Application Number:	13773341
International Application Number:	
Confirmation Number:	1036
Title of Invention:	METHOD AND DEVICE FOR PICTORIAL REPRESENTATION OF SPACE-RELATED DATA
First Named Inventor/Applicant Name:	Pavel Mayer
Customer Number:	23640
Filer:	Elizabeth L. Durham/Nicci Fowler
Filer Authorized By:	Elizabeth L. Durham
Attorney Docket Number:	081553.0102
Receipt Date:	21-FEB-2013
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Application Type:	Reissue (Utility)

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Payment was successfully received in RAM	\$2218
RAM confirmation Number	5678
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Case 1:14-cv-00217-TBD Document 64-5 Filed 01/26/15 Page 6 of 18 PageID #: 577 Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Warnings: Information: 2 Warnings: Information: 3	ransmittal Reissue Application Fee Worksheet (SB06)	Transmittal.pdf Fees-Transmittal-Final.pdf	51283 15/2904b7a7ec09c/3590516371d/60/6c737 f0a 534462 d6548ffab21c1c136be49e3313e5ac3343d1	no	1
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	Abstract		1		2
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	Specification		14	17	
	Claims		18	19	
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Case 1:14-cv-00217-TBD Document 64-5 Filed 01/26/15 Page 11 of 18 PageID #: 582

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

AMENDMENTS TO THE SPECIFICATION

Please replace the Abstract with the following amended Abstract:

A method and device for the pictorial representation of space-related data, for example, geographical data of the earth. Such methods are used for [[visualising]] visualizing topographical or meteorological data in the form of weather maps or weather forecast films. Further fields of application are found in tourism, in traffic control, in navigation aids and also in studio technology. The space-related data, for example topography, actual cloud distribution, configurations of roads, rivers or frontiers, satellite images, actual temperatures, historical views, CAD-models, actual camera shots, are called up, stored or generated in a spatially distributed fashion. For a screen representation of a view of the object according to a field of view of a virtual observer, the required data are called up and shown only in the resolution required for each individual section of the image. The sub-division of the image into sections with different spatial resolutions is preferably effected according to the method of a binary or quadrant tree.

Please replace the paragraph beginning at column 1, line 9 with the following amended paragraph:

The invention relates to a method and a device for pictorial representation of space-related data, particularly geographical data of flat or physical objects. Such methods are used for example for [[visualising]] <u>visualizing</u> topographic or meteorological data in the form of weather maps or weather forecast films. Further fields of application arise from tourism, in traffic control, as navigation aids and in studio technology.

Please replace the paragraph beginning at column 1, line 16 with the following amended paragraph:

Representations of geographical information are generated according to prior art by using a so-called paintbox. The latter generates from given geographical information maps of a desired area, which are then selectably altered, and for example can be [[coloured or emphasised]] <u>colored or emphasized</u> according to states, or even represented in an altered projection.

Please replace the paragraph beginning at column 1, line 22 with the following amended paragraph:

Another system for generating views of a topography is found in [[the]] known flight [simulator] *simulators*. In this case, starting from a fictitious observation point from the cockpit of an aircraft, a view of the surroundings is generated.

Please replace the paragraph beginning at column 1, line 27 with the following amended paragraph:

Electronic maps, such as are marketed today on CD-ROM memories, or navigation systems in terrestrial vehicles, likewise generate from [[a]] fixed databases a diagrammatic [[vies]] view of the geography of a desired area. These systems however do not have the capacity for representing various views of the area, but are restricted to mapping topographical features such as the configuration of roads, railway lines or rivers.

Please replace the paragraph beginning at column 1, line 35 with the following amended paragraph:

All the [names] *named* methods and devices for [[visualising]] <u>visualizing</u> geographical data [[utilise]] <u>utilize</u> fixed data sets in order to generate the desired images. The resolution of the representation is therefore limited to the resolution of the data sets stored in a memory unit. Further, only those space-related data can be observed which are provided in the respective data bank. Thus it is not for example possible to provide representations which have been generated on the basis of electronically stored maps in navigation systems with the actual cloud distribution over this area. On the other hand, flight simulators, due to the limited availability of memory space, are limited to representing narrowly defined areas with a pre-fixed resolution.

Please replace the paragraph beginning at column 1, line 63 with the following amended paragraph:

The object of the present invention is to make available a method and a device for representing space-related data which [[enables]] <u>enable</u> the data to be represented in any preselected image resolution in the way in which the object [has] *would have* been seen by an observer with a selectable location and selectable direction of view. A further object of the invention is to keep the [outlay] *effort required* for generating an image so low that the image

generation takes place so rapidly that upon alteration of the location and/or of the direction of view of the observer, the impression of [[continuos]] continuous movement above the object arises.

Please replace the paragraph beginning at column 2, line 7 with the following amended paragraph:

[[This object is]] <u>These objects are</u> achieved by the method according to the invention in the preamble in conjunction with the [[characterising]] <u>characterizing</u> features of claim 1, and by the corresponding device.

Please replace the paragraph beginning at column 2, line 10 with the following amended paragraph:

In the method according to the invention the space-related data are called up, stored and/or generated in spatially distributed data sources. These data sources include for example data memories and/or other data sources which call up and/or generate space-related data. The portion of the object to be observed, the field of view, is determined from the selected location and the selected direction of view of the observer. Then a first data set, which has a coarse spatial resolution, is called up from at least one of the spatially distributed data sources, transmitted and centrally stored, and the field of view is shown. If the resolution of the representation is below the desired image resolution, the field of view is divided into sections and an investigation is undertaken for each individual section to see whether the data within the section are sufficient for a representation with the desired image resolution. If this is not the case for one of the sections, further data with a finer resolution are called up, transmitted and centrally stored from at least one of the spatially distributed data sources, and the section is shown with the new data. In turn [an investigation is carried out into] a check for sufficient image resolution and possibly a further sub-division of the tested section [is carried] [[out]] into further partial sections is performed as described above. If the entire representation has the desired image resolution or if in the spatially distributed data sources no further data of a higher resolution are present, then the method is terminated.

Please replace the paragraph beginning at column 2, line 36 with the following amended paragraph:

The device according to the invention for carrying out this method accordingly comprises a display unit and an input unit for the location and the direction of view of the observer. The device according to the invention further has a plurality of spatially distributed data sources, a central data memory, <u>and</u> a data transmission network between these and [the] *an* evaluation unit, in order to determine the representation of the data on the display unit from the centrally stored data.

Please replace the paragraph beginning at column 2, line 66 with the following amended paragraph:

The method according to the invention leads to a situation in which the data for the field of view to be shown are called up from the spatially distributed data sources only in the accuracy necessary for representation of the field of view with the desired image resolution, i.e. for example with high spatial resolution for close areas of the field of view or in low spatial resolution in a view to the horizon of a spherical object. The [[number of data]] amount of data necessary for representation of the field of view and thus to be stored centrally is in principle determined by the image resolution selected and is thus substantially constant for each image. This applies for example independently of whether the observer is at a great distance from the object or directly beside it and whether the observer is looking frontally on to the object or in the direction of the horizon. Therefore, the [outlay] *effort required* for data transmission for representing the various fields of view is to a large extent constant and restricted.

Please replace the paragraph beginning at column 3, line 16 with the following amended paragraph:

Furthermore, by means of the [[number, reduced to a minimum, of data]] <u>amount of data</u> to be centrally stored <u>being reduced to a minimum</u> as a result of the method according to the invention, the memory requirement and computer time for generating the pictorial representation is greatly reduced, so that an extremely rapid image build-up becomes possible.

Please replace the paragraph beginning at column 3, line 40 with the following amended paragraph:

Thus the observer is not limited as [[regards]] to his travelling speed and yet it is ensured that an image is always shown.

Please replace the paragraph beginning at column 3, line 42 with the following amended paragraph:

It is particularly advantageous if the same [[number]] <u>amount</u> of data, i.e. data with the same uniform resolution, are basically [[also]] always called up for a section. <u>In this way</u>, [[Due]] <u>due</u> to the division and thus reduction in size of the sections during the method according to the invention, [[in this way]] continuous refinement of the data during the course of the method according to the invention is achieved.

Please replace the paragraph beginning at column 4, line 10 with the following amended paragraph:

Particularly suitable as objects are heavenly bodies such as the planets of the solar system, whose topography can be represented. Further space-related data of such objects include among other things meteorological or geological information, for example cloud distributions, political, economic and social data and in particular [[colour]] <u>color</u> information relating to the appearance of the heavenly bodies, as obtained for example for the earth from satellite images and for other planets, from images from space probes.

Please replace the paragraph beginning at column 4, line 46 with the following amended paragraph:

The data are now displayed on the background of this grid. Particularly simple is the display of height information by the application of various [[colours]] <u>colors</u> ([[colour]] <u>color</u> vertices). Satellite images or information on cloud formations can also be laid over this grid ([[texturising]] <u>texturizing</u>). If the grid is not equidistant but applied with different sizes of grid squares, (adaptive grids) then it is possible [hetter] to [resolve and] display specific areas [such], *like*, for example, areas with intense height alterations with better resolution.

Please replace the paragraph beginning at column 4, line 65 with the following amended paragraph:

In principle, the location and the direction of view of the observer is not limited. Consequently the observer can move from a view with extremely limited resolution, e.g. the earth from space, to a view of individual atoms. The range of spatial resolutions covers many orders of magnitude. In order to enable any resolutions [[also with]] while also using evaluating devices which operate internally with a limited numerical precision, for example with computers

with an address space limited to 32 bits and/or floating-point view limited to 32 bits for numbers, after an alteration in the location and of the angle of view of the observer, the data are converted to a new co-ordinate system with a new co-ordinate origin. During a continuous movement of the observer therefore the co-ordinates of the data are constantly subjected to co-ordinate transformation.

Please replace the paragraph beginning at column 5, line 39 with the following amended paragraph:

Embodiments of the method according to the invention and of the device according to the invention are given by way of example in the following:

- FIG. 1: a structure of a device according to the invention;
- FIG. 2: a device according to the invention;
- FIG. 3: [[a diagram of the sub-division of the field of view in two sections according to the model of a quadrant tree]] the categorization of the field of view into different detail levels;
- FIG. 4: [[a diagram of an adaptive sub-division of the field of view into a binary or quadrant structure]] <u>a diagram of the sub-division of the field of view in two sections according to the model of a quadrant tree;</u>
- FIG. 5: [[a diagram of the sub-division of the field of view into sections according to the model of an octant tree]] <u>a diagram of an adaptive sub-division of the field of view into a binary or quadrant structure;</u>
- FIG. 6: [[the interconnection of individual data sections by transverse references]] a diagram of the sub-division of the field of view into sections according to the model of an octant tree;
- FIG. 7: [[the categorisation of the field of view into different detail levels]] <u>the</u> interconnection of individual data sections by transverse references;
 - FIG. 8: a cartographic view of a cloud distribution on the earth;
 - FIG. 9: a view of a cloud distribution on the earth as a globe;
 - FIG. 10: a view of the earth as a globe with cloud distribution;
 - FIG. 11: a view of a portion of the earth with temperature indicator tables.

Please replace the paragraph beginning at column 5, line 62 with the following amended paragraph:

FIG. 1 shows the construction of a device according to the invention for displaying geographically related data of the earth. The device comprises a plurality of spatially distributed data sources 4, a data transmission network, a plurality of devices 1, 2 and 3 as central memories[[,]] and devices for determining the display of the centrally stored space-related data (evaluation units), and a plurality of display [[unit]] units 5. This device according to the invention makes it possible for a plurality of evaluation units 1, 2 and 3 [[simultaneously]] together to access the common spatially distributed data sources 4.

Please replace the paragraph beginning at column 6, line 14 with the following amended paragraph:

The nodes are in turn sub-divided into primary nodes 1, secondary nodes 2, and tertiary nodes 3. In this case a primary node is connected both to the interchange network 7 and also via the conduits 6 directly to the spatially distributed data sources and by the conduit 8 directly with the display unit 5. The secondary node [[8]] $\underline{2}$ is connected only with the interchange network 7 and directly via the conduits 8 with the display unit 5. The tertiary node 3 has only one connection to the display unit 5 and to the interchange network 7.

Please replace the paragraph beginning at column 6, line 24 with the following amended paragraph:

Systems of the company Silicon Graphics (SGI Onyx) were used as a node computer. This computer is capable of displaying more than 5[,]00,000 [[texturised]] texturized triangles per second and consequently is suitable for rapid picture build-up. It operates with floating-point views with a 32 bit representation. As this accuracy in the present example is insufficient for example to follow a movement of an observer from space continuously down to a [[centimetre]] centimeter resolution on the earth, the co-ordinates of the data during such a movement were continuously converted to a new co-ordinate system with a coordinate origin located in the vicinity of the observer.